

HiMedia Laboratories Private Limited

C-40, Road No.21Y, MIDC, Wagle Industrial Area,
Thane(W) - 400604 , Website : www.himedialabs.com,
Email : info@himedialabs.com

Certificate of Analysis, Quality and Conformity

Material Code : M173	Material Name : Mueller Hinton Agar	Lot No : 0000563585
Report No.: 40001300593	Date of Release & Report : 2022-11-26	Expiry Date : 2027-10

Appearance

Cream to yellow homogeneous free flowing powder. Observed : Light yellow

Gelling

Firm, comparable with 1.7% agar gel.

Colour and Clarity of prepared medium

Light amber coloured clear to slight opalescent gel forms in Petri plates.

Reaction

Reaction of 3.8% w/v aqueous solution at 25°C.

pH

pH Range :7.20-7.40 Observed : 7.37

Cultural Response

Cultural characteristics observed after incubation at 30-35°C for 18 -24 hours for bacterial cultures. For testing S.pneumoniae : The medium was supplemented with 5% Sheep blood and incubated at 35°C for 16-18 hours at 5% CO2 For testing H.influenaze : Yeast extract & 2 vials /l of Haemophilus Growth Supplement (FD117 containing 15 mg/l of Haematin + 15 mg/l of NAD) and incubated at 35°C for 20-24 hours at 5% CO2

Antibiotic Sensitivity test

Various discs were tested for standard ATCC strains and zone of inhibition were measured after an incubation 30-35°C for 18 hours. (As per the latest CLSI Protocol M6 & Standards as per the current CLSI M100)

Thymine/Thymidine Content

The zones for these discs are indicative of the Thymine/Thymidine content of the medium.

Divalent Cation Content

* The zones for these discs are indicative of the Divalent Cation content of the medium

Organism	Inoculum (CFU)	Growth	Observed Lot value (CFU)	Recovery	Standard Zone	Zone of inhibition Observed
Escherichia coli ATCC 25922 (WDCM 00013)						
<i>Growth promoting</i>	88	luxuriant	80	90%	-	-
<i>Amoxyclav AMC 30 mcg</i>	-	-	-	-	18-24 mm	23mm
<i>Ampicillin AMP 10 mcg</i>	-	-	-	-	16-22 mm	21mm
<i>Cefotaxime CTX 30 mcg</i>	-	-	-	-	29-35 mm	35mm
<i>Cefoxitin CX 30 mcg</i>	-	-	-	-	23-29 mm	28mm
<i>Cephalothin CEP 30mcg</i>	-	-	-	-	15-21 mm	20mm

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<i>Chloramphenicol C 30 mcg</i>	-	-	-	-	21-27 mm	26mm
<i>Ciprofloxacin CIP 5mcg</i>	-	-	-	-	30-40 mm	39mm
<i>Gentamicin GEN 10 mcg</i>	-	-	-	-	19-26 mm	25mm
<i>Sulphafurazole SF 300 mcg</i>	-	-	-	-	15-23 mm	22mm
<i>Tetracycline TE 30 mcg *</i>	-	-	-	-	18-25 mm	24mm
<i>Co-Trimoxazole COT 25 mcg #</i>	-	-	-	-	23-29 mm	28mm

Staphylococcus aureus ATCC 25923 (WDCM 00034)

<i>Growth promoting</i>	89	luxuriant	80	89%	-	-
<i>Amoxyclav AMC 30 mcg</i>	-	-	-	-	28-36 mm	35mm
<i>Ampicillin/Sulbactam A/S 10/10 mcg</i>	-	-	-	-	29-37 mm	36mm
<i>Cephalothin CEP 30mcg</i>	-	-	-	-	29-37 mm	36mm
<i>Ciprofloxacin CIP 5mcg</i>	-	-	-	-	22-30 mm	29mm
<i>Erythromycin E 15 mcg</i>	-	-	-	-	22-30 mm	29mm
<i>Linezolid LZ 30 mcg</i>	-	-	-	-	25-32 mm	31mm
<i>Oxacillin OX 1mcg</i>	-	-	-	-	18-24 mm	23mm
<i>Pristinomycin RP 15 mcg</i>	-	-	-	-	21-28 mm	27mm
<i>Tetracycline TE 30 mcg *</i>	-	-	-	-	24-30 mm	29mm
<i>Vancomycin VA 30 mcg</i>	-	-	-	-	17-21 mm	20mm
<i>Co-Trimoxazole COT 25 mcg #</i>	-	-	-	-	24-32 mm	31mm
<i>Cefoxitin CX 30 mcg</i>	-	-	-	-	23-29 mm	28mm

Pseudomonas aeruginosa ATCC 27853(WDCM 00025)

<i>Growth promoting</i>	85	luxuriant	77	90%	-	-
<i>Amikacin AK 30 mcg *</i>	-	-	-	-	18-26 mm	25mm
<i>Aztreonam AT 3mcg</i>	-	-	-	-	23-29 mm	28mm
<i>Cephotaxime CTX 30 mcg</i>	-	-	-	-	18-22 mm	21mm
<i>Ceftazidime CAZ 30 mcg</i>	-	-	-	-	22-29 mm	28mm
<i>Ciprofloxacin CIP 5mcg</i>	-	-	-	-	25-33 mm	32mm
<i>Gentamicin GEN 10 mcg *</i>	-	-	-	-	16-21 mm	20mm
<i>Imipenem IPM 10 mcg</i>	-	-	-	-	20-28 mm	27mm
<i>Piperacillin PI 100 mcg</i>	-	-	-	-	25-33 mm	32mm
<i>Ticarcillin/Clavulanic acid TCC 75/10mcg</i>	-	-	-	-	20-28 mm	27mm
<i>Tobramycin TOB 10 mcg *</i>	-	-	-	-	19-25 mm	24mm

Escherichia coli ATCC 35218

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<i>Growth promoting</i>	82	luxuriant	74	90%	-	-
<i>Amoxyclav AMC 30 mcg</i>	-	-	-	-	17-22 mm	21mm
<i>Ampicillin AMP 10 mcg</i>	-	-	-	-	6 mm	6mm
<i>Ampicillin/Sulbactam A/S 10/10 mcg</i>	-	-	-	-	13-19 mm	18mm
<i>Piperacillin PI 100 mcg</i>	-	-	-	-	12-18 mm	17mm
<i>Piperacillin/Tazobactam PIT 100/10 mcg</i>	-	-	-	-	24-30 mm	29mm
<i>Ticarcillin TI 75 mcg</i>	-	-	-	-	6 mm	6mm
<i>Ticarcillin/Clavulanic acid TCC 75/10mcg</i>	-	-	-	-	21-25 mm	24mm

Enterococcus faecalis ATCC 29212 (WDCM 00087)

<i>Growth promoting</i>	83	luxuriant	75	90%	-	-
<i>Co-Trimoxazole COT 25 mcg #</i>	-	-	-	-	≥ 20 mm (Clear zone)	28mm
<i>Trimethoprim TR 5 mcg #</i>	-	-	-	-	≥ 20 mm	29mm
<i>Vancomycin VA 30 mcg</i>	-	-	-	-	≥ 17 mm	20mm

Staphylococcus aureus ATCC 43300 (MRSA)(WDCM 00211)

<i>Growth promoting</i>	85	luxuriant	75	88%	-	-
<i>Oxacillin OX 1 mcg</i>	-	-	-	-	Very Hazy to No Zone	No zone

Sterptococcus pneumoniae ATCC 49619 (On Medium with 5% Sheep Blood)

<i>Growth promoting</i>	83	luxuriant	75	90%	-	-
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Neisseria gonorrhoeae ATCC 49226 (Incubated w/5% CO2)

<i>Growth promoting</i>	88	luxuriant	76	86%	-	-
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Haemophilus influenzae ATCC 49247 (On medium w/ Y.E.,NAD & Hematin)

<i>Growth promoting</i>	85	luxuriant	76	89%	-	-
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- . ATCC is a registered trade mark of the American Type Culture Collection
- . NCTC and National Collection of Type Culture are registered trade mark of the Health Protection Agency

Control Media :

- . For Bacteria : Soyabean Casein Digest Agar / Columbia Blood Agar base enriched with 5% v/v Sheep/Horse blood.
- . For Yeast & Mold : Sabouraud Dextrose Agar.

- . All ISO 11133 : 2014/Amd.1:2018(E) control strains are included in the Quality parameter
- . HiMedia Laboratories Pvt Ltd is Certified for ISO 9001:2015, ISO 13485:2016 , WHO GMP

. Information for BSE/TSE Risk: The material was subjected to pH ≤ 7.0 and/or a temperature in excess of 75°C for no less than 2 hours during the manufacturing process. The bovine raw material for this product was collected entirely from Indian Origin animals in a licensed based establishment. The animals are inspected under a Govt. approved veterinarian's supervision and were apparently free from infectious and contagious diseases. BSE (Bovine Spongiform Encephalopathy)/ TSE (Transmissible

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Spongiform Encephalopathy) and dioxine are not known to exist in India. This material does not contain, nor is derived from the specific risks material as defined in The Maharashtra Animal Preservation Act Govt. of Maharashtra, India.

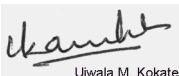
STATUS OF THE MATERIAL : APPROVED

This is to certify that this lot passes and it confirms to the above mentioned tests and specifications . The information given here is believed to be correct and accurate, however, both the information and products are offered without warranty for any particulars use, other than that specified in the current HiMedia manual or product sheets. The results reported were obtained at the time of release.


This document has been produced electronically and is valid


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2022-11-26